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Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
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Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln
                    70
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Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
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Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln 35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp 50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln 65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp 85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile 100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser 115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser 130 135 140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met 145 150 155

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
180 185 190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser Leu 195 200 205

Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu Val 210 215 220

Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys Leu 225 230 235 240

Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg Leu 245 250 255

Lys Pro Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg Lys 260 265 270

280 Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala Thr Glu Pro Gly Pro 295 300 Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly Arg Ser Pro Gly Leu 310 Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala Arg Ser Pro 330 Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg Ala Pro Ser Ser Pro 340 Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg Thr Ala Gly Val His 360 Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val Glu Ile Ser Ala 375 380 <210> 27 <211> 256 <212> PRT <213> Homo sapiens <400> 27 Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly 40 Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg 50 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp 120

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu

135

Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser Pro Glu Thr

145 150 155 160 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro 170 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg 180 185 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu 200 Met Glu Asp Asp Asp Leu Asp Ser Cys Val Val Glu Asn Pro Ile Asn 215 Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Val Tyr Lys Lys Ser Ser 230 Leu Ser Ser Ile Trp Leu Gln Glu Ala Phe Ser Ser Leu Gly Pro Trp 245 250 <210> 28 <211> 256 <212> PRT <213> Homo sapiens Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg 5 Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly 40 Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg 50 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp 120 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro 130 135

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu

145 150 155 160 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro 170 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg 180 185 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu 200 Met Glu Asp Asp Asp Leu Asp Ser Cys Val Val Glu Asn Pro Ile Asn 215 Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Val Tyr Lys Lys Ser Ser 235 Phe Tyr Ile Ile Cys Leu Lys Glu Ala Ser Ser Ser Phe Gly Pro Trp 250 <210> 29 <211> 213 <212> PRT <213> Homo sapiens <400> Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys 5 Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln 40 Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser 120 Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser 130 135 Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met

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145 155 150 160 Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met 165 170 Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln 185 Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser His 200 His His His His 210 <210> 30 <211> 439 <212> PRT <213> Homo sapiens <400> 30 Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys 10 Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro 20 25 30 Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu Gln 70 Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp 90 Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile 100 105 Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser 120 Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser 135 Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met 145 150 Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met 165 170 Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln 185

- Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser Glu 195 200 205
- Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro 210 215 220
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- Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp 260 265 270
- Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr 275 280 285
- Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp 290 295 300
- Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu 305 310 315 320
- Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg 325 330 335
- Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys 340 345 350
- Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp 355 360 365
- Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys 370 375 380
- Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser 385 390 395 400
- Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser 405 410 415
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Leu Ser Leu Ser Pro Gly Lys 435

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Lys Arg Asp Lys Pro Val Thr Val Val Gln Ser Ile Gly Thr Glu Val 35 40 45

Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu 50 55 60

Asn Gly Ser Leu Leu Ser Asp Leu Gln Leu Ala Asp Glu Gly Thr
65 70 75 80

Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp Thr Phe Thr Gly Glu Lys
85 90 95

Thr Ile Asn Leu Thr Val Asp Val Pro Ile Ser Arg Pro Gln Val Leu 100 105 110

Val Ala Ser Thr Thr Val Leu Glu Leu Ser Glu Ala Phe Thr Leu Asn 115 120 125

Cys Ser His Glu Asn Gly Thr Lys Pro Ser Tyr Thr Trp Leu Lys Asp 130 135 140

Gly Lys Pro Leu Leu Asn Asp Ser Arg Met Leu Leu Ser Pro Asp Gln 145 150 155 160

Lys Val Leu Thr Ile Thr Arg Val Leu Met Glu Asp Asp Asp Leu Tyr 165 170 175

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Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly 35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg 50 55 60

Pro 65	Val	Val	Lys	Trp	Gln 70	Leu	Lys	Arg	Asp	Lys 75	Pro	Val	Thr	Val	Val 80
Gln	Ser	Ile	Gly	Thr 85	Glu	Val	Ile	Gly	Thr 90	Leu	Arg	Pro	Asp	Tyr 95	Arg
Asp	Arg	Ile	Arg 100	Leu	Phe	Glu	Asn	Gly 105	Ser	Leu	Leu	Leu	Ser 110	Asp	Leu
Gln	Leu	Ala 115	Asp	Glu	Gly	Thr	Tyr 120	Glu	Val	Glu	Ile	Ser 125	Ile	Thr	Asp
Asp	Thr 130	Phe	Thr	Gly	Glu	Lys 135	Thr	Ile	Asn	Leu	Thr 140	Val	Asp	Val	Pro
Ile 145	Ser	Arg	Pro	Gln	Val 150	Leu	Gly	Ala	Ser	Thr 155	Thr	Val	Leu	Glu	Leu 160
Ser	G1u	Ala	Phe	Thr 165	Leu	Asn	Cys	Ser	His 170	Glu	Asn	Gly	Thr	Lys 175	Pro
Ser	Tyr	Thr	Trp 180	Leu	Lys	Asp	Gly	Lys 185	Pro	Leu	Leu	Asn	Asp 190	Ser	Arg
Met	Leu	Leu 195	Ser	Pro	Asp	Gln	Lys 200	Val	Leu	Thr	Ile	Thr 205	Arg	Val	Leu
Met	Glu 210	Asp	Asp	Asp	Leu	Tyr 215	Ser	Суѕ	Val	Val	Glu 220	Asn	Pro	Ile	Asn
Gln 225	Gly	Arg	Thr	Leu	Pro 230	Cys	Lys	Ile	Thr	Glu 235	Tyr	Arg	Lys	Ser	Ser 240
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